

Title (en)

Device for changing the shape of an aircraft wing

Title (de)

Einrichtung bei einem Tragflügel eines Luftfahrzeuges zur Veränderung der Flügelform

Title (fr)

Dispositif pour changer la forme de l'aile d'un aéronef

Publication

EP 0989057 A3 20010404 (DE)

Application

EP 99117380 A 19990903

Priority

DE 29817162 U 19980924

Abstract (en)

[origin: EP0989057A2] At least one flexible tension beam (1) is supported against the skin or an airfoil wing and anchored against the front (4) and trailing (5) edges of the wing. The curvature of the beam can be varied by a cable actuator (9) to change the shape of the wing. Preferably the cable actuator is formed by two tension cables, each fastened to one end of the beam and to two stays at the other end and are attached to a tubular expansion chamber of elastically flexible material, surrounded by a force transmission sheath fastened to the two stays to exert force produced by internal pressure of a working fluid.

IPC 1-7

B64C 3/48

IPC 8 full level

B64C 3/48 (2006.01)

CPC (source: EP)

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Citation (search report)

- [XA] US 5367970 A 19941129 - BEAUCHAMP CHARLES H [US], et al
- [X] FR 549141 A 19230202
- [A] US 4349169 A 19820914 - MCANALLY ROBERT W
- [A] DE 471694 C 19290215 - HERMANN HAHN
- [A] GB 190920173 A 19100818 - TATTERSALL WILLIAM

Cited by

RU2706678C1; FR2898865A1; CN117885887A; WO2007110518A1

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